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Introduction to Deep Learning and image classification using Convolution Neural Networks

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We, at Uninett and Sigma2, have been working on enabling researcher to utilize machine learning by providing "one click"install to most used deep learning frameworks e.g. Tensorflow, Pytorch with GPUs resources to train the models. This workshop will provide participants a possibility to utilize the given platform.

The workshop will provide introduction to Deep learning with hand-on session to perform image classification using Convolution Neural Network (CNN) in PyTorch framework. We will also go through a Kaggle competition and engage in one competition for image classification task as well. The hands-on tutorial will use Jupyter Notebook running on the above-mentioned infrastructure.

Participants will gain practical experience in Deep Learning from applying state-of-art methods in image classification and ability to transfer this knowledge to their corresponding fields. Some experience with Python and Jupyter notebook can be beneficial to get most out of workshop but no prerequisite is required from Deep learning part.

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